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**EDITION** 



ILLUSTRATED

## CYCLOPEDIC DICTIONARY MEDICAL Tabers

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|electrocoagulation

Make sure insulators are dry sufficient moisture to conduct electricity. rainy day ordinary insulators may contain precautions must be taken. On a humid or that it is electrically charged and special possible. If patient is in water, remember always preferable to turn off the current if tact or to remove wire from patient. It is

tragedies result. TREATMENT: SEE: elecrent and have it shut off, otherwise multiple procedure is to ascertain the source of curtrial locations cannot be insulated by such about x-ray equipment or in conducting currubber; paper, or strips of wood. A safe means. Such currents may jump through rents for long distances or for special indus-High tension currents, such as those used

current are principal symptoms. sciousness; contact or proximity to source of e. shock. SYM: Burns, with loss of con-

may be necessary. SEE: resuscitation; shock off current. Prolonged artificial respiration such as dry wood, paper, rubber, etc., or shut from source of current with nonconductors F. A. TREATMENT: Carefully free victim

electric'ity. A form of energy which exhibits which is protons and negative which is elecmal effects. Composed of two parts: positive magnetic, chemical, mechanical, and ther-

rubbing two articles together. e., frictional. Generation of static e. by

e., galvanic. E. generated by chemical

another body close by, without contact. e., magnetic. E. induced by means of a e., Induced. E. generated in a body from

an excess of electrons negatively charged. e., positive. Electric charge caused by e., negative. Electric charge caused by

; loss of negative electrons. tain materials. e., static. E. generated by friction of cer-

farad; ohm; volt. e., unit of. SEE: ampere; coulomb;

electrization. The act of charging or treatelec'trify [Gr. ělektron, amber, + L. facere, to make]. To charge a body with electricity ing by use of electricity

electro, electr. [Gr. elektron, amber] Prefix indicating relationship to electricity.

electroanalgesia ["+ analgesia, want of cally or through implanted electrodes feeling). Producing relief from pain by using low intensity electrical currents applied lo-

electroanesthesia (e-lek"tro-ăn"es-the'ziă) ["+ an, not, + aisthésis, sensation]. 1. Local anesthesia induced by an anesthetiz-

> frequency, amplitude, and wave form through the brain. Has been used experidevice which passes electricity of a certain tricity. 2. General anesthesia produced by a ing substance injected into tissues by elec-

electrobiol'ogy ["+ bias, life, + logas, study of]. Science of electric phenomena in the liv-

electrobios'copy ["+ "+ skopein, to examine]. Electric test to determine if life is pre-

electrocardiogram ECG; EKG rhythm and myocardial damage. ABBR: chambers of the heart and it is of value in gram gives important information concernthe U wave is unknown. The electrocardio to contraction of the ventricles. The cause of cle is electrically polarized and then depole of the atria. During this time the heart mus-The first or P wave is caused by contraction grăm") ["+ kardia, heart, + gramma, writthe diagnosis of cases of abnormal cardiac ing the spread of excitation to the different rized. The Q, R, S, and T waves are related and T waves. Sometimes a U wave is seen. heart; shows certain waves called P, Q, R, S, ing]. A record of the electrical activity of the

electrocardiograph (e-lek"trō-kar'diograf) ["+"+ graphein, to write]. Device for heart muscles. recording electrical variations in action of

electrocardiog'raphy. The making and study of graphic records (electrocardio-grams) produced by electrical currents originating in the heart.

electrocatalysis (e-lěk"trō-kă-tăl'ĭ-sĭs) ["+ to write]. Device for recording heart sounds kăr"di-o-fo'no-grăf) [Gr. elektron, amber, + kata, down, + lysis, loosening]. Chemical kardia, heart, + phōne, sound, + graphein.

electrocautery (e-lěk"trō-kaw'těr-i) either direct or alternating. red or white heat by a current of electricity. means of an apparatus consisting of a holder containing a wire, which may be heated to a kauterion, branding iron]. Cauterization by

electrochem'istry ["+ chēmeia, chemis by electricity. try]. Science of chemical changes produced

electrochem'y. Therapy concerned with which produce chemical effects in the tisphysical applications, such as electricity

electrocision (e-lek"tro-sizh'un) [Gr. élek by electric current. tron, amber, + L. caedare, to cut]. Excision

traction of muscular tissue by electrical

(e-lĕk"trō-kăr'dī-o

electrocardiophonograph .(e-lĕk"trō-

decomposition produced by electricity.

electrocoagulation quency electric current. The heat producing Coagulation of tissue by means of a high frela'shun) ["+ L. coagulare, to thicken] gue to be destroyed the coagulation is generated within the tis-

mentally in both the U.S.S.R. and U.S.A. electrocontractility (e-lek"tro-kon-trak-

til'ī-ti) ["+ L. contrahere, to contract]. Con-

electrocryptectomy (e-lěk"tro-krip-těk'tōsion]. Destruction of tonsillar crypts by diamī) ["+ kryptos, concealed, + ektomē, excistimulation.

electrocu'tion [Gr. ēlektron, amber, + exeelectric current. cute]. The destruction of life by means of

electrocystoscopy (e-lek"tro-sis-tos ko-pi) the bladder. The use of electric light to see the interior of ["+ kystis, bladder, + skopein, to examine]

electrode (e-lěk'trōd) ["+ hodos, way]. A rent is to be applied. In electrotherapy an e. is an instrument with a point or a surface conductor and the object to which the curmedium intervening between an electric of a patient. from which to discharge current to the body

... e., brush. A wire brush used to apply electricity to a part of the body.

called an electroencephalogram (EEG).

ance than the part of the body in the circuit. e., depolarizing. E. with greater resist-

plied in pairs dissimilar in size and shape, the larger, the dispersive, indifferent, or hen the smaller e. is called the active, and e., dispersive. When e.'s may be ap-

gen gas. "e., hydrogen. Form absorbing hydro

trodes. SEE: multiterminal minals providing for the use of several elece., indifferent. SEE: e., dispersive. e., multiple point. Several sets of tere., negative. Cathode.

tle at one end and a metallic point at the Other for use in applying static sparks. e., point. An e. with an insulating han-

nandle having on one end a metallic ball or e., spark ball or point. An insulating e., positive. Anode.

SEE: iondophoresis. medicines through the skin by ionization. Point. Used in giving static sparks.

•. therapeutic. E. for introduction of

quency electric sparks, in contradistinction cells and tissue by means of short high-freelectrodesiccation to fulguration, which is the destruction cans, to dry upl. The destructive drying of kā'shun) [Gr. ēlektron, amber, + L. desic-(e-lĕk"trō-dĕs"ī-

tissue by means of long high-frequency elec-

(e-lĕk"trō-kō-ăg"ū-

electrodiagnosis. Use of electric and electric sparks.

tion of nerves and muscles. cine, but particularly in investigating funcuse is helpful in almost all branches of meditronic devices for diagnostic purposes. Their

electrodialysis(e-lěk"trō-di-ăl'ī-sīs)["+ diapassing a current through a solution conod of separating electrolytes from colloids by apart, + lysis, dissolving], (pl. ses) A methtaining both.

electrodynamometer strength of an electric current. measure]. An instrument to measure the mŏm'ē-tĕr) ["+ dynamis, power, + metron, (e-lĕk"trō-di"nă-

electroencephalogram graph. ABBR: EEG. sĕfā-lō-grām) [Gr. ēlektron, amber, + enkewriting). A tracing on an electroencephalophalos, in the head, brain, + gramma, a (ē-lěk″trō-ěn-

electroencephalograph electroencephalography. Amplification, of the brain. SEE: electroencephalography. ser a lografi ["+"+ graphein, to write]. An instrument for recording electrical activity tivity of the brain. The record obtained recording, and analysis of the electrical ac-(e-lěk-trō-ěn-

is the alpha rhythm of 8 1/2-12/seconds. A characteristic change in the wave occurs between many pairs can be obtained simulous locations. The difference between the during mental attention. during sleep, upon opening the eyes, and in the normal adult under resting conditions taneously. The most frequently seen pattern The potential between a pair at a time or electrical potential of two sites is recorded. Electrodes are placed on the scalp in vari-

sions in the cerebrum. SEE: rhythm, alpha; convulsive disorders and in localizing to be very helpful in studying epilepsy and use of this diagnostic technique has proven have an abnormal EEG. Nevertheless the with no otherwise demonstrable disease will ease will have a normal EEG and others rhythm, beta. Some persons who have intracranial dis-

electrohemostasis sis) ["+ haima, blood, + stasis, standstill] frequency current. The arrest of bleeding by means of a high-(e-lěk"tro-hē-mös"tă-

electrol'ogy ["+ logos, science]. The branch and properties of electricity of science that deals with the phenomena

electrolysis (e"lěk-tről"I-sis) ["+ lysis, dissolution]. The decomposition of a substance by passage of an electrical current through it.